

DATA SHEET

200 Tablet Hardness Tester

The Agilent 200 provides accurate hardness testing of tablets in a small footprint apparatus designed for analytical R&D, quality control and tablet manufacturing environments.



Key Benefits

- ▶ **Accuracy.** Obtain precise measurements for tablet breaking strength with two models ranging to 35 and 50 kiloponds (kp).
- ▶ **Easy calibration.** Accomplish quick, easy calibration within minutes using the calibration weights, hanger and adjustment tools.
- ▶ **Flexibility.** Standard and customized jaw surfaces maintain the tablet in the optimum position for precise measurement.
- ▶ **Compact and durable.** Save valuable space in production areas, as well as laboratory environments.



Accuracy and Precision

The Agilent 200 is compliant with USP <1217> Tablet Breaking Strength. The tester combines accuracy and precision required for testing in cGMP laboratory environments, and its rugged design allows for constant use and reproducible results.

Simple Operation

Operation of the Agilent 200 is straightforward. The top-loading design saves time by making tablet insertion simple. Upon insertion, the jaws of the instrument automatically adjust for tablet size up to 1.375 inches in diameter.

Testing Results

Three models are available to conform with your documentation requirements for Kilopond (kp), Strong Cobb (SC) and Newton (N) measurements; kp/SC, SC/N and kp/N. Results may also be printed using the optional standalone printer, which complies with RoHS standards.

Calibration

Calibrate the Agilent 200 within minutes using the calibration weight hanger and adjustment tools. Calibration weights are available and are slotted for use with the calibration weight hanger included in the Agilent 200 accessory kit. A calibration fixture is also available to lock the Agilent 200 to the bench surface during calibration.

Thickness Testing

The optional automated tablet thickness gauge allows you to measure thickness in millimeters or inches. Manual thickness gauges are available as well. Both gauges have a range of 0-12.7 mm/0-0.5 in. and are capable of giving precise measurements to within ± 0.01 mm/0.001 in.

Jaw Plates

The jaw plates on the Agilent 200 are removable and interchangeable to accommodate tablets of various shapes.

Each Agilent 200 ships complete with an accessory kit that includes a standard jaw plate, fragment safety shield, trim pot tool for calibration, a broken tablet waste bin, and tablet fragment brush. To order different calibration weights or jaw plates, contact your local Agilent representative.



Tablet Thickness Gauge



Jaw plates (left to right): standard, shelf type, 1/8x60 degree, 1/16 radius, 1/8 radius, bolus type, flat face and adjustable.

Force Conversion Chart

1 kilopond = 9.807 Newton

1 pound = 0.45359 kilopond

1 kilopond = 2.2046 pound

1 StrongCobb = 0.714 kilopond

Agilent 200 Specifications

Altitude	0 - 2000 m (0 - 6562 ft.)
Temperature	5 to 40 °C
Humidity (non-condensing)	Not more than 80% RH
Voltage requirements	115 V / 60 Hz 230 V / 50 Hz
Current requirements	115 V—1.5 Amp 230 V—0.75 Amp
Fuse requirements	115 V—1.5 Amp, 5 mm x 20 mm FAST 230 V—0.75 Amp, 5 mm x 20 mm FAST
Range	0.4 to 35 kiloponds (up to 50 kp available)
Thickness (with optional thickness gauge)	Resolution of 0.01 mm (0.001 in.)
Minimum tablet diameter	0.3175 cm (0.125 in.) with the jaw plate, shelf type
Maximum tablet diameter	3.4925 cm (1.375 in.)
Jaw accessories	Interchangeable jaw plates allow for quick conversion of plates
Units of measure	Kilopond (kp), Strong Cobb (SC) or Newton (N) Three configurations: kp/SC, kp/N, or SC/N
Calibration method	Static method (gravimetric) with calibrated weights
Accuracy	1% of full scale
Printer (optional)	Impact
Dimensions	Height without thickness gauge: 18.4 cm (7.28 in.) Height with thickness gauge: 28 cm (11 in.) Width: 27.9 cm (11 in.) Depth: 17.8 cm (7 in.)
Equipment weight	6.12 kg (13.5 lb)

Ordering Information

Product Description	Part Number
200 Hardness Tester, 115 V, 60 Hz, kp/SC	40-2000
200 Hardness Tester, 115 V, 60 Hz, kp	40-2010
200 Hardness Tester, 115 V, 60 Hz, SC/N	40-2011
200 Hardness Tester, 115 V, 60 Hz includes thickness gauge	40-2012
200 Hardness Tester, 230 V, 50 Hz, kp/SC	40-2100
200 Hardness Tester, 230 V, 50 Hz, kp	40-2110
200 Hardness Tester, 230 V, 50 Hz, SC/N	40-2111
200 Hardness Tester, 230 V, 50 Hz includes thickness gauge	40-2112
200 Hardness Tester, 115 V, 60 Hz, 50 kp version	40-2200
200 Hardness Tester, 230 V, 50 Hz, 50 kp version	40-2300

To learn more about Dissolution Testing,
visit us at www.agilent.com/lifesciences/dissolution

